Thermally fused flat cable
RA-CO-FHV

Features
■ Multiple cables or air tubes having different ratings are fused to become flat.
■ Adaptable for UL standards and specifications of low dust and abrasion resistance.

Use
■ Wiring of robots and machine tools where U-shape bending is applied

Characteristics
■ Rating temperature: 80°C
■ Rating voltage: 300 V

Cable structure and performance
Case of fusing power supply cables (2 of 3-core 16 AWG), signal transmission cables (2 of 5-pair 25 AWG), and an air tube

Example of cable structure

Manufacturing conditions
① Max. number of fusible pieces (total number of pieces including cables and tubes): 20 pcs. (as a guide)
② Max. fusible width: Approx. 120 mm
③ Max. outer diameter of each cable to be fused: 14 mm
④ Air tube material: Soft nylon that we designate (as certain polymers like polyurethane are not fusible)

Bending characteristics of thermally fused flat cable
(U-shape bending test data)

Cleared 10 million times
No fault with conductor and shield
No fault such as peeling off in between respective units

Test conditions
① Bending radius R = 50 mm
② Movement stroke L = Approx. 300 mm